What is claimed is:

- 1. A recording medium having a data structure for managing reproduction of multi-path video data recorded on the recording medium, comprising:
- a data area storing the multi-path video data; and a navigation information area storing playlists including reproduction information of the multi-path video data,

wherein the playlists are created as many as the number of reproduction paths of the multi-path video data.

- 2. The recording medium of claim 1, wherein each of the playlists is associated with all of data stream clip files pertaining to one path of the multiple reproduction paths.
- 3. The recording medium of claim 1, wherein each of the playlists has type information to identify whether it is entry 15 playlist or not.
 - 4. The recording medium of claim 1, wherein the playlists include at least one playitem individually, the playitems included in the different playlists refer a same clip file containing common path video data section of the multi-path video data.
- 5. A recording medium having a data structure for managing reproduction of multi-path video data recorded on the recording medium, comprising:
 - a data area storing the multi-path video data; and
- a navigation information area storing a playlist including 25 reproduction information of the multi-path video data,

wherein the playlist includes a plurality of playitems pointing to different video data sections pertaining to different reproduction paths, respectively.

- 6. The recording medium of claim 5, wherein the playlist further includes at least one playitem pointing to a clip file containing common path video data section of the multi-path video data.
- 7. The recording medium of claim 5, wherein each of the playitems has type information to identify whether it is entry playitem or not.
- 8. A recording medium having a data structure for managing reproduction of multi-path video data recorded on the recording 10 medium, comprising:
 - a data area storing the multi-path video data; and
 - a navigation information area storing playlists including reproduction information of the multi-path video data,

wherein the playlists are created as many as the number of 15 path segments constituting the multi-path video data.

- 9. The recording medium of claim 8, wherein each of the path segments is recorded in a single clip file.
- 10. The recording medium of claim 8, wherein each of the playlists has type information to identify whether it is entry 20 playlist or not.
 - 11. The recording medium of claim 8, wherein the navigation information area further comprises object information including pre-commands and/or post-commands to be conducted before and/or after each playlist is reproduced.
- 12. The recording medium of claim 11, wherein single object information is created for the multi-path video data.
 - 13. The recording medium of claim 11, wherein the object information is created for each of the playlists.

- 14. The recording medium of claim 13, wherein each object information has type information to identify whether it is entry object or not.
- 15. A method for recording a data structure for managing 5 reproduction of multi-path video data on a recording medium, comprising:

recording the multi-path video data in a data area on the recording medium; and

recording a plurality of playlists including reproduction

10 information of the multi-path video data in a navigation information

area on the recording medium,

wherein the playlists are created as many as the number of reproduction paths of the multi-path video data.

16. A method for recording a data structure for managing 15 reproduction of multi-path video data on a recording medium, comprising:

recording the multi-path video data in a data area on the recording medium; and

recording a playlist including reproduction information of 20 the multi-path video data in a navigation information area on the recording medium,

wherein the playlist includes a plurality of playitems pointing to different video data sections pertaining to different reproduction paths, respectively.

25 17. A method for recording a data structure for managing reproduction of multi-path video data on a recording medium, comprising:

recording the multi-path video data in a data area on the

recording medium; and

recording playlists including reproduction information of the multi-path video data in a navigation information area on the recording medium,

- wherein the playlists are created as many as the number of path segments constituting the multi-path video data.
 - 18. An apparatus for recording a data structure for managing reproduction of multi-path video data on a recording medium, comprising:
- a drive for driving an optical recording means that records data on the recording medium;

an encoder for encoding the multi-path video data; and a controller for controlling the drive to record the encoded multi-path video data in a data area on the recording medium and a plurality of playlists including reproduction information of the multi-path video data in a navigation information area on the recording medium, such that the playlists are created as many as the number of reproduction paths of the multi-path video data.

19. An apparatus for recording a data structure for managing 20 reproduction of multi-path video data on a recording medium, comprising:

a drive for driving an optical recording means that records data on the recording medium;

an encoder for encoding the multi-path video data; and

a controller for controlling the drive to record the encoded

multi-path video data in a data area on the recording medium and a

playlist including reproduction information of the multi-path video

data in a navigation information area on the recording medium, such

that the playlist includes a plurality of playitems pointing to different video data sections pertaining to different reproduction paths, respectively.

20. An apparatus for recording a data structure for managing 5 reproduction of multi-path video data on a recording medium, comprising:

a drive for driving an optical recording means that records data on the recording medium;

an encoder for encoding the multi-path video data; and

10 a controller for controlling the drive to record the encoded

multi-path video data in a data area on the recording medium and a

plurality of playlists including reproduction information of the

multi-path video data in a navigation information area on the

recording medium, such that the playlists are created as many as the

15 number of path segments constituting the multi-path video data.

21. A method for reproducing a data structure for managing reproduction of multi-path video data recorded on a recording medium, comprising:

reproducing at least one playlist including reproduction
20 information of the multi-path video data from a navigation information
area on the recording medium;

selecting one playlist or one playitem among playitems included in the playlist based on a chosen reproduction path; and reproducing full or a part of one path of the multi-path video data indicated by the selected playlist or playitem.

22. An apparatus for reproducing a data structure for managing reproduction of multi-path video data recorded on a recording medium, comprising:

a drive for driving an optical reproducing device to reproduce data recorded on the recording medium;

a decoder for presenting the reproduced data; and

a controller for controlling the drive to reproduce at least one playlist including reproduction information of the multi-path video data from a navigation information area on the recording medium, selecting one playlist or one playitem among playitems included in the playlist based on a chosen reproduction path, and controlling the drive to reproduce full or a part of one path of the multi-path video data indicated by the selected playlist or playitem.